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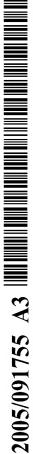
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(57) Abstract: A polyelectrolyte film is provided, the polyelectrolyte film comprises an interpenetrating network of a net positively charged polymer and a net negatively charged polymer, wherein the net positively charged polymer, the net negatively charged polymer, or both contain polymer repeat units with at least two fluorine atoms.